

Claims

1. A substrate and/or underlayer of an electronic component, which substrate or underlayer is to be coated with an organic functional layer, wherein said substrate or underlayer comprises an oriented, stretched (well-ordered) plastics film such that the orderliness of the plastics film enables the application of said functional material thereto in the form of a well-ordered layer.
5
2. A substrate as defined in claim 1, wherein said plastics film is at least partially crystalline and/or axially stretched.
10
3. A substrate as defined in claim 1 or claim 2, wherein the plastics film is monoaxially or biaxially stretched.
4. A substrate as defined in any one of the previous claims, wherein the plastics film is of isotactic polypropylene, polyamide, polyethylene, or polyethylene terephthalate.
15
5. A method of increasing the charge carrier mobility of a conducting or semiconducting layer of organic material, wherein the conducting or semiconducting layer is formed on an undersurface comprising an oriented, stretched (well-ordered) plastics film.
20
6. The use of a substrate and/or underlayer as defined in any one of claims 1 to 4 for the production of an OFET.
25
7. An organic field effect transistor (OFET) having a semiconducting layer of organic material which exhibits a charge carrier mobility of $\mu > 10^{-3} \text{cm}^2/\text{Vs}$.